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INITIAL SYNCHRONIZING METHOD IN DS-CDMA INTER-BASE STATION ASYNCHRONOUS
CELLULAR SYSTEM AND RECEIVER

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ABSTRACT

PROBLEM TO BE SOLVED: To provide an initial synchronizing method in a DS-CDMA inter-base station asynchronous cellular system which fast performs cell search.

SOLUTION: A baseband receiving signal is inputted to a matched filter 1 and taken correlation with a diffusion code from a diffusion code generating part 2. A signal power calculating part 3 calculates correlation value output power of the filter 1 and outputs it to a long code synchronous timing deciding part 4, a threshold calculating part 5 and a long code identifying part 6. The part 2 outputs a common short code #0 to a control channel of each base station at the time of an initial cell search. After a long code synchronous timing is decided, it successively switches and outputs each piece of an N chip that is a part of a diffusion code sequence which is a synthetic code of a long code #1 proper to each base station and the short code #0.

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